



World Resources Company

8113 West Sherman Street Tel: 602.233.9166
Phoenix, AZ 85043-3000 Fax: 623.936.9164

July 20, 2000

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
P. O. Box 3546
Seattle, WA 98124-3546

Dear Mr. Thompson:

Enclosed is the appropriate copy of your company's Hazardous Waste Manifest resulting from the transfer of recyclable materials to World Resources Company.

Please note that in accordance with 40 CFR §262.40, this copy of the manifest must be retained as a record for at least three (3) years from the date the waste was accepted by the initial transporter.

If you have any questions, please feel free to give us a call.

Sincerely,
World Resources Company

Manifest Coordinator
Enclosures

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W.A.D.9.8.0.7.3.8.5.4.6.000006		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address ALASKAN COPPER WORKS P.O. Box 3546, Seattle, WA 98124		6. US EPA ID Number CAD059240713		A. State Manifest Document Number			
4. Generator's Phone (206) 382-8379		5. Transporter 1 Company Name M.C Nottingham Co. of So. Cal.		7. Transporter 2 Company Name		B. State Generator's ID			
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Phoenix, Arizona 85043		10. US EPA ID Number AZD980735500		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No. Type		13. Total Quantity	
						14. Unit Wt/Vol		15. Waste No.	
a. RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III				024 DM		1.7840		P D007	
b. RQ, Hazardous waste, solid, n.o.s. (F006), 9, NA3077, III				001 CF		01.262		P F006	
c.									
d.									
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Emergency call pager #206-648-8423) (Use CHEMTREC company code "WORR") Wear gloves & goggles P.O. #M64527									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name GERARD A. Thompson		Signature <i>[Signature]</i>				Month Day Year 10/7/11			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name JAY ROY RELOH				Signature <i>[Signature]</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name				Signature			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name Lombio Chavez				Signature <i>[Signature]</i>			
						Month Day Year 10/7/11			

ORIGINAL-RETURN TO GENERATOR

PRINTED ON RECYCLED PAPER
USING SOYBEAN INKPRINTED WITH
SOY INK

TIME 10:36 AM
DATE 07/14/00
SUBTOTAL 1179 LB
TOTAL 1179 LB
WORLD RESOURCES CO.
0. SATANS
10:36 AM 07/14/00
0 1b

TIME 11:10 AM
DATE 07/14/00

SUBTOTAL 16006 LB
TOTAL 16006 LB

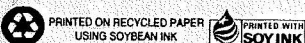
8.00TMS

WORLD RESOURCES CO.

11:10 AM 07/14/00
0 16

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W.A.D.980738516	Manifest Document No. 22446	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address ALASKAN COPPER WORKS P.O. Box 3546, Seattle, WA 98124				A. State Manifest Document Number		
4. Generator's Phone (206) 382-8379				B. State Generator's ID		
5. Transporter 1 Company Name M.C Nottingham Co. of So. Cal.		6. US EPA ID Number C.A.D.058240713		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 909-623-3264		
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Phoenix, Arizona 85043		10. US EPA ID Number A.Z.D.980735500		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone 800-972-1955		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. <input type="checkbox"/> HM RQ. Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III				424 DM	1784.8	P
b. <input type="checkbox"/> RQ. Hazardous waste, solid, n.o.s. (F006), 9, NA3077, III				421 C.F.	1762	P
c. <input type="checkbox"/>						
d. <input type="checkbox"/>						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Emergency call pager #206-648-8423) (Use CHEMTREC company code "WOCR") Wear gloves & goggles DD #M64527						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Gordon A. Thompson				Signature [Signature]		Month Day Year 12/1/00
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Tay Ray Bell				Signature [Signature]		Month Day Year 12/1/00
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name				Signature		Month Day Year

GENERATOR COPY



**WORLD RESOURCES COMPANY**

P H O E N I X A R I Z O N A

Recycling for a healthier environment

**LAND DISPOSAL
RESTRICTION NOTICE****D007**

EFFECTIVE 11/09/98

[A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8).

Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation—and, typically, State analogues as well—requires the retention period to be extended further in specified cases.]

TO: **WORLD RESOURCES COMPANY**

8113 West Sherman Street, Phoenix AZ 85043-3000

FROM:

Alaska Copper Works
[COMPANY NAME]*628 Harvard St Seattle WA*
[COMPANY ADDRESS]MANIFEST
NUMBER:*00006*DATE OF
SHIPMENT:*7-11-00*

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268.

The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table:

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
D007	non-wastewater	40 CFR §268.40

SIGNATURE:

[Signature]

TITLE:

*Enviro. Tech*NAME
PRINTED:*Gerard A. Thompson*

DATE:

*7-11-00***Instructions for the Completion of this Land Disposal Restriction Notice [LDRN]**

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s. (D007)

1996
NORTH AMERICAN
EMERGENCY RESPONSE
GUIDEBOOK

TAKEN FROM GUIDE 171 OF THE 1996 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- Containers may explode when heated.
- Some may be transported hot.

HEALTH

- Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WQRR").
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fires

- Dry chemical, CO₂, water spray or regular foam.

Large Fires:

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

Fire Involving Tanks:

- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- Avoid inhalation of asbestos dust.

Small Dry Spills

- With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

- Move victim to fresh air.
- Call emergency medical care.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

ASTM WRC 01/17/96

Material Safety Data Sheet

D007 Recyclable Material

Recycler's Facility Name and Site Address:

Issued: 3/18/94

World Resources Company
8113 West Sherman Street
Phoenix, Arizona 85043
Tel: 1-602-233-9166 Fax: 602-936-9164

Call CHEMTREC only in the event of
emergencies during shipping that
involve a spill, leak, fire, or accident
(all calls are recorded)

For Emergencies During Shipping in
the US or Canada, Day or Night,
Call: CHEMTREC 800-424-9300
(Use CHEMTREC Company Code "WRRR")
For calls from other countries call:
202-483-7616 Collect

Section 1

PRODUCT - MATERIAL IDENTIFICATION

Environmental Protection Agency (EPA) Waste Classification: D007
Generic Name: Chromium metal bearing sludge
Chemical Family: Non-Ferrous metal particulates
Synonym: Metallic Residues From High Frequency Burning Table

DOT Shipping Name: RQ, Hazardous Waste, Solid, n.o.s. (D007)
DOT Hazard Class: 9; Packing Group: III
DOT Identification Number: NA 3077
DOT Emergency Response Guide 31 Applies

Section 2

HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology:
Aluminum	7429-90-5	0-5	10 mg/m ³	No Data Available
Chromium	7440-47-3	0-15	0.5 mg/m ³	2.75 mg/kg (Rat, Oral)
Copper	7440-50-8	0-10	1.0 mg/m ³	0.35 mg/kg (Mouse, Oral)
Nickel	7440-02-0	0-10	1.0 mg/m ³	No Data Available
Zinc	7440-66-6	0-5	none established	No Data Available

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Moist, Sandy consistency
Brown to Black colored
Water Content 10-20% by weight
Specific Gravity: 2.0 to 3.0
Solubility: Insoluble in water

Density: 100 to 150 lbs/cu/ft
Incompatible Reactivity: Extreme heat sources,
Oxidants
Vapor Pressure: Insignificant
Stability: Avoid contact with acids, extreme heat

Polymerization: Will not occur
Boiling Point: Above 2000°C
Melting Point: Above 1000°C
pH: 7.0 to 10.0
Odor: Nil

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable, under normal conditions
Special Firefighting Procedures: Dry Chemical
Product Decomposition... (Due to Fire or Explosion): Hydrogen gas, ZnO (under extreme external heat)

Oxidation: Non-oxidizing
Explosive: Non-explosive

NFPA
Fire Diamond



Section 5

TOXICITY

Listed Carcinogen component: Chromium, Nickel Toxicology: See Sec. 2 (Chromium, Nickel) Route of Entry: Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

Section 7

PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

Section 8

CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.
Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.
Hand Protection: Gloves recommended.

Section 9

GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 880056 Telephone: (206) 623-5800 Date: 7-1-90

Company Name and Address: Alaskan Copper Works 628 Hanford st. Seattle Wa 98134

Signature: [Signature]

AZF-WRC 3/94

AKC-0017401



WORLD RESOURCES COMPANY

P H O E N I X , A R I Z O N A

Recycling for a healthier environment

LAND DISPOSAL RESTRICTION NOTICE

F006

EFFECTIVE 11/07/96

[A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.]

To:	WORLD RESOURCES COMPANY	8113 West Sherman Street, Phoenix AZ 85043-3000
From:	COMPANY NAME: Alaskan Copper Works	COMPANY ADDRESS: P.O. Box 3546, Seattle, WA 98124

MANIFEST NUMBER:	00006	DATE OF SHIPMENT:	7-11-00
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This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table:

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
F006	non-wastewater	40 CFR §268.40

SIGNATURE:		TITLE:	Enviro. tech
NAME PRINTED:	Gerald A. Thompson	DATE:	7-11-00

Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice (as stated in 40 CFR §268.7(a)(2)).

An F006 designation on the LDRN includes the following constituents: cadmium (D006), chromium (D007), lead (D008), silver (D011), cyanide, and nickel. However, the designation does not include arsenic (D004), barium (D005), mercury (D009), or selenium (D010). If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below (as stated in 40 CFR §268.9).

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then no additional entry is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) must be added to the LDR Notice.

REFERENCE INFORMATION TOXICITY CHARACTERISTIC		APPROPRIATE ENTRY ON LDR NOTICE		
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40

F006 GENERATORS

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III

NORTH AMERICAN
EMERGENCY
RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

1. Some may burn but none ignite readily.
2. Some may polymerize (P) explosively when heated or involved in a fire.
3. Containers may explode when heated.
4. Some may be transported hot.

HEALTH

1. Inhalation of material may be harmful.
2. Contact may cause burns to skin and eyes.
3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
4. Fire may produce irritating, corrosive and/or toxic gases.
5. Runoff from fire control may cause pollution.

PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W0RR").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

PROTECTIVE CLOTHING

1. Wear positive pressure self-contained breathing apparatus (SCBA).
2. Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

- Fire
1. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

EMERGENCY RESPONSE

Small Fires

1. Dry chemical, CO₂, water spray or regular foam.

Large Fires:

1. Water spray, fog or regular foam.
2. Move containers from fire area if you can do it without risk.
3. Do not scatter spilled material with high pressure water streams.
4. Dike fire-control water for later disposal.

Fire Involving Tanks:

1. Cool containers with flooding quantities of water until well after fire is out.
2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
3. ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

1. Do not touch or walk through spilled material.
2. Stop leak if you can do it without risk.
3. Prevent dust cloud.
4. Avoid inhalation of asbestos dust.

Small Dry Spills

1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

1. Dike far ahead of liquid spill for later disposal.
2. Cover powder spill with plastic sheet or tarp to minimize spreading.
3. Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street
Phoenix, Arizona 85043-3000
Tele: 1-602-233-9166 Fax: 1-623-936-9164

Issued: 8/7/90
Revised: 9/18/96 DLS

Call CHEMTREC only in the event of
emergencies during shipping that
involve a spill, leak, fire, or accident
(all calls are recorded)

For Emergencies During Shipping in
the US or Canada, Day or Night,
Call: CHEMTREC 800-424-9300

(Use Chemtrec Company Code "WRR")
For calls from other countries call:
202-483-7616 Collect

Section 1

PRODUCT - MATERIAL IDENTIFICATION

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge
Environmental Protection Agency (EPA) Waste Classification: F006
Chemical Family: Metallic (Hydroxide) Precipitates
Synonym: Non-ferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (F006)
DOT Hazard Class: 9; Packing Group: III
DOT Identification Number: NA 3077
Guide 171 of the North American Emergency Response
Guidebook Applies

Section 2

HAZARDOUS INGREDIENTS

Ingredient	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	20427-59-2	0-30	1.0 mg/m ³ (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg/m ³ (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg/m ³ (Dust)	LD-50 7,340 mg/kg
Diatomaceous Earth	68855-54-9	0-10	8.0 mg/m ³ (Dust)	LD-50 3,160 mg/kg

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,
Gray/Green to Brown,
Water Content 30-80%

Density: 64 to 90 lbs/cuft
Incompatible Reactivity: None Known
Vapor Pressure: Insignificant
Stability: Avoid contact with acids
Polymerization: Will not occur

Boiling Point: Above 2600°C
Melting Point: Above 1800°C
pH: 7.0 to 10.0
Odor: Nil

Specific Gravity: 2.5 to 3.5
Solubility: Insoluble in water

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable
Special Firefighting Procedures: None
Product Decomposition: (Due to Fire or Explosion): None

Oxidation: Non-oxidizing
Explosive: Non-explosive

NFPA
Fire Diamond



Section 5

TOXICITY

Listed Carcinogen component: Nickel
Toxicology: See Sec. 2 (Nickel Hydroxide)
Route of Entry: Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.
Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.
Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

Section 7

PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

Section 8

CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.
Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.
Hand Protection: Gloves recommended.

Section 9

GENERATOR'S VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable

material listed on the attached Manifest Number:

00006

Telephone: 206-382-8379

Date: 7-11-00

Company Name and Address:

Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124

Signature: [Signature]

Recycled Paper

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